



Nasa solar system exploration

What is the Solar System exploration program?

Missions within the program investigate a synergistic array of science objectives with more depth and breadth than is possible for smaller, tightly focused missions in the Discovery and New Frontiers programs. The following are missions that have been selected under the Solar System Exploration Program.

Which missions have been selected under the Solar System exploration program?

The following are missions that have been selected under the Solar System Exploration Program. The Double Asteroid Redirection Test, or DART, was the first demonstration of the kinetic impact technique to change the motion of an asteroid in space.

What are Solar System exploration missions?

Solar System Exploration missions vary in scope -- from small, focused investigations to large, strategic missions of national importance. These include our "flagship" missions to answer the most compelling and challenging questions about our solar system.

What is NASA doing with space robots?

Our fleet of space robots is out there right now exploring destinations from the innermost planet to the farthest reaches of our Sun's influence. In 2014, NASA formed the Planetary Missions Program Office to bring the Discovery, New Frontiers and Solar System Exploration missions into a common management system.

What do you love most about the Solar System?

"The thing I love the most about our solar system is that it's an incredible natural laboratory," said Dr. Lori Glaze, director of NASA's Planetary Science Division. "We have so many different types of objects in the solar system, from planets and moons to asteroids and comets.

How can NASA improve planetary science?

By conducting a series of planetary science investigations, NASA will provide a mechanism by which pressing questions in planetary science may be addressed, permitting a steady improvement in our understanding of planetary systems and the processes that affect them.

Our solar system has eight planets, and five dwarf planets - all located in an outer spiral arm of the Milky Way galaxy called the Orion Arm. ... Solar System Exploration. Kuiper Belt. Oort Cloud. Exoplanets. Return to top. National Aeronautics and Space Administration. NASA explores the unknown in air and space, innovates for the benefit of ...

In 2014, NASA formed the Planetary Missions Program Office to bring the Discovery, New Frontiers and Solar System Exploration missions into a common management system. The missions in each series are independent, with their own unique science goals.



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NASA's Jet Propulsion Laboratory, the leading center for robotic exploration of the solar system. ... Anyone with an internet-enabled device browser can explore the past, present, and future of the solar system in 3D ...

NASA's Juno spacecraft came within 645 miles (1,038 kilometers) of the surface of Jupiter's largest moon, Ganymede. It was the closest a spacecraft had passed by the solar system's largest natural satellite since the Galileo mission in 2000.

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Eyes on the Solar System. This simulated live view of the solar system allows you to explore the planets, their moons, asteroids, comets and the spacecraft interacting with them in 3D. You can also fast-forward or rewind time, and explore the solar system as it looked from 1950 to 2050, complete with past and future NASA missions.

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NASA's New Horizons spacecraft flew past Ultima Thule in the early hours of New Year's Day, ushering in the era of exploration from the enigmatic Kuiper Belt, a region of primordial objects that holds keys to understanding the origins of the solar system. "Congratulations to NASA's New Horizons team, Johns Hopkins Applied Physics Laboratory ...

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NASA's real-time science encyclopedia of deep space exploration. Our scientists and far-ranging robots explore the wild frontiers of our solar system. ... that reside outside our solar system; there may be billions of exoplanets in the Milky Way Galaxy alone, and some may be habitable (have conditions favorable to life). Whether our ...

Exploration. Everything! ... Read this article to find out how long it takes all the planets in our solar system to make a trip around the Sun. explore; Explore Mars: A Mars Rover Game. Drive around the Red Planet and gather information in this fun coding game! ... Gallery of NASA Solar System Images. Glorious planets and



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moons to view or print.

"The Senior Review has validated that these two planetary science missions are likely to continue to bring new discoveries, and produce new questions about our solar system," said Lori Glaze, director of the planetary science division at NASA Headquarters, Washington.

Pluto was once our solar system's ninth planet, but has been reclassified as a dwarf planet. ... It's located in the Kuiper Belt. NASA. Solar System Exploration Our Galactic Neighborhood. Skip Navigation. menu close modal Pluto By the Numbers More Destinations ... This site is maintained by the Planetary Science Communications team at NASA's ...

Learn about the Sun, planets, dwarf planets, moons, asteroids, and comets in our solar system. Find out how it formed, how big it is, and how we search for life beyond Earth.

In its second extended mission, New Horizons will continue to explore the distant solar system out to 63 astronomical units (AU) from Earth. The New Horizons spacecraft can potentially conduct multi-disciplinary observations of relevance to the solar system and NASA's Heliophysics and Astrophysics Divisions.

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Humans have studied our solar system for thousands of years, but it was only in the last few centuries that scientists started to really figure out how things work. The era of robotic exploration--sending uncrewed spacecraft beyond Earth as ...

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They surveyed and sniffed, analyzed and scrutinized. They took stunning images in various visible spectra. Cassini's 12 science instruments were designed to carry out sophisticated scientific studies of Saturn, from collecting data in multiple regions of the electromagnetic spectrum, to studying dust particles, to characterizing Saturn's plasma environment and magnetosphere.

NASA's Planetary Missions Program brings together three series of robotic exploration missions -- Discovery, New Frontiers and Solar System Exploration. The program is part of the agency's Science Mission Directorate. Find us on Facebook at NASA Planetary Missions Program. Find us on Facebook at NASA's Planetary Missions Programs about



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NASA's Mars Exploration Program will focus the next two decades on its science-driven systemic approach on these strategic goals: exploring for potential life, understanding the geology and climate of Mars, and preparation for human exploration. ... Solar System Exploration. Asteroids, Comets & Meteors. Moon. Kids. Return to top.

NASA's real-time science encyclopedia of deep space exploration. Our scientists and far-ranging robots explore the wild frontiers of our solar system. ... When the solar system settled into its current layout about 4.5 billion years ago, Mars formed when gravity pulled swirling gas and dust in to become the fourth planet from the Sun. Mars is ...

Solar Storms and Flares. Exploration; Eclipses; Helio Big Year; NASA HEAT; Stories; Gallery; Our Solar System ... Voyager 2 set a course to exit our solar system, reaching interstellar space on Dec. 10, 2018, as a speedy, silent messenger from Earth. ... and NASA, Solar Orbiter is a Sun-observing satellite with 10 science instruments, all ...

SSERVI Earth's Moon Mars Exploration Program Planetary Data System (PDS) Solar System Exploration NASA Science NASA's Eyes NASA 3D Resources OpenSpace MoonDiff. Trek Link. EXPLORE TREKS. ... The Solar System Treks are online, browser-based portals that allow you to visualize, explore, and analyze the surfaces of other worlds using real ...

Overview: Until the Cassini mission, little was known about Saturn's largest moon Titan, save that it was a Mercury-sized world whose surface was veiled beneath a thick, nitrogen-rich atmosphere. But Cassini mapped Titan's surface, studied its atmospheric reactions, discovered liquid seas there and even sent a probe to the moon's surface, completely rewriting ...

NASA's Deep Dive Planetary Website. Launched in October 1998, the Solar System Exploration website is a real-time, living encyclopedia of the robotic exploration of our solar system. We provide the public with reliable, accurate, up-to-date information about the planets, moons, asteroids, comets and everything else in our solar system.

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